

significant to wind and ocean current turbine control where variations in the input torque occur on a regular basis as the rotors are subjected to wind gusts and surges in ocean current velocity.

In the claims:

Please cancel claim 5 without prejudice to or abandonment of the subject matter thereof.

1. For use with an electric power-generating device that converts fluid flow of wind or water to electricity including a rotor having blades that rotate in response to fluid flow; a main power input shaft coupled to said rotor; a single-stage torque-dividing gearbox coupled to said main power input shaft; said torque-dividing gearbox having a plurality of output shafts located around a perimeter of said main power input shaft; and, a plurality of sub-powertrains, each one of said sub-powertrains including a generator coupled to a respective one of said output shafts, each said generator having a local generator voltage output, a controller method comprising:

Connecting, for each generator, a transformer configured as a reactor, each transformer being connected to a respective local generator voltage output; and,

Regulating torque experienced by each said generator to assure that torques are balanced between generators at any given system load by actively modulating said transformer.

2. The method of claim 1 wherein said coils of said transformers are wired in parallel and are actively modulated with a solid-state switching device.

3. The method of claim 2 wherein each generator is connected to a respective primary coil of a transformer and a respective secondary coil of a transformer is connected to said solid-state switching device.
4. The method of claim 1 wherein each generator has a slip characteristic and said regulating step includes modifying said slip characteristic of each generator to match a generator with the greatest slip.
6. In a system of mechanically coupled multiple induction generators driven by a single rotor, a main power input shaft coupled to said rotor; a single-stage torque-dividing gearbox coupled to said main power input shaft; said torque-dividing gearbox having a plurality of output shafts located around a perimeter of said main power input shaft; each of said multiple induction generators being coupled to a respective one of said output shafts, each said generator having a local generator voltage, a method of regulating torque experienced by each induction generator to assure that torques are balanced between generators at any system load comprising steps of:
 - A. Monitoring torque on each individual generator;
 - B. Determining relative torque balance between said multiple generators; and,
 - C. Modifying torque characteristics of said individual generators to bring said generators into balance to provide uniform torque load distribution between said multiple generators.

Please add the following new claims:

7. The method of claim 2 wherein said regulating step includes pulse width modulation of said solid-state switching device.
8. The method of claim 2 wherein said solid-state switching device is a silicon controlled rectifier.

9. The method of claim 3 wherein said solid-state switching device is a silicon controlled rectifier.
10. The method of claim 6 wherein each generator has a slip characteristic and said regulating step includes modifying said slip characteristic of each generator to match a generator with the greatest slip.
11. The method of claim 6 wherein, independent of said steps A-C, said method comprises steps of:
- D. Sensing rising net current produced by said multiple induction generators; and,
 - E. Commanding a decrease in generator reaction torque by modifying torque characteristics of said individual generators in response to said sensing rising net current.
12. The method of claim 11 wherein each generator has a slip characteristic and said commanding step includes increasing said slip characteristic of each generator to decrease said generator reaction torque.

REMARKS

By this amendment, claims 1-4 and 6 are amended, claim 5 is canceled and new claims 7-12 are added. A new abstract is submitted. No new matter is added.

Specification Rejections

1. - 2. The abstract of the disclosure was objected to because legal phraseology "consists" is used. A new abstract has been submitted.

Claim Rejections - 35 USC § 112

- 3.-4. The Examiner has rejected Claim 4 under 35 USC § 112 as follows: